

Preliminary Amendment
U.S. Application No. 10/603,064
Attorney Docket No.: LEX-010C1
Page 2 of 5

Amendments to the Claims

This listing of claims will replace all prior versions of claims in the application:

Listing of Claims

1-59. (Canceled)

60. (Previously presented) A fusion protein comprising:
a first polypeptide chain comprising the p35 subunit of interleukin-12 (IL-12); and
a second polypeptide chain comprising a cytokine and the p40 subunit of IL-12, wherein the cytokine is a four-helix bundle protein.

61. (Previously presented) The fusion protein of claim 60, wherein the first polypeptide chain is covalently bonded to the second polypeptide chain.

62. (Previously presented) The fusion protein of claim 61, wherein the first polypeptide chain is covalently bonded to the second polypeptide chain by a disulfide bond.

63. (Previously presented) The fusion protein of claim 60, wherein the cytokine is interleukin-2 (IL-2).

64. (Previously presented) The fusion protein of claim 60, wherein the cytokine is granulocyte-macrophage colony stimulating factor (GM-CSF).

65. (Previously presented) The fusion protein of claim 60, wherein the cytokine is selected from the group consisting of interleukin-4 (IL-4), interleukin-6 (IL-6), and macrophage colony-stimulating factor (M-CSF).

66. (Canceled)

67. (Previously presented) A nucleic acid encoding the fusion protein of claim 60.

68. (Currently amended) An isolated or cultured cell comprising the nucleic acid of claim 67.

Preliminary Amendment
U.S. Application No. 10/603,064
Attorney Docket No.: LEX-010C1
Page 3 of 5

69. (Canceled)

70. (Previously presented) A fusion protein comprising a single-chain polypeptide comprising:

the p35 subunit of interleukin-12 (IL-12);

the p40 subunit of IL-12; and

a second cytokine, wherein the second cytokine is a four-helix bundle protein, and wherein the p35 subunit of IL-12, the p40 subunit of IL-12, and the second cytokine are fused together as portions of a single, expressed polypeptide chain.

71. (Previously presented) The fusion protein of claim 70, wherein the second cytokine is interleukin-2 (IL-2).

72. (Previously presented) The fusion protein of claim 70, wherein the second cytokine is granulocyte-macrophage colony stimulating factor (GM-CSF).

73. (Previously presented) The fusion protein of claim 70, wherein the second cytokine is selected from the group consisting of interleukin-4 (IL-4), interleukin-6 (IL-6), and macrophage colony-stimulating factor (M-CSF).

74. (Canceled)

75. (Previously presented) A nucleic acid encoding the fusion protein of claim 70.

76. (Currently amended) An isolated or cultured cell comprising the nucleic acid of claim 75.

77. (Previously presented) The fusion protein of claim 70 comprising, in an N- to C-terminal direction, the p35 subunit of IL-12, the p40 subunit of IL-12, and the second cytokine.

78. (Previously presented) A fusion protein comprising:

a first polypeptide chain comprising the p40 subunit of interleukin-12 (IL-12); and

a second polypeptide chain comprising a cytokine and the p35 subunit of IL-12, wherein the cytokine is a four-helix bundle protein.

Preliminary Amendment
U.S. Application No. 10/603,064
Attorney Docket No.: LEX-010C1
Page 4 of 5

79. (Previously presented) The fusion protein of claim 78, wherein the first polypeptide chain is covalently bonded to the second polypeptide chain.
80. (Previously presented) The fusion protein of claim 79, wherein the first polypeptide chain is covalently bonded to the second polypeptide chain by a disulfide bond.
81. (Previously presented) The fusion protein of claim 78, wherein the cytokine is interleukin-2 (IL-2).
82. (Previously presented) The fusion protein of claim 78, wherein the cytokine is granulocyte-macrophage colony stimulating factor (GM-CSF).
83. (Previously presented) The fusion protein of claim 78, wherein the cytokine is selected from the group consisting of interleukin-4 (IL-4), interleukin-6 (IL-6), and macrophage colony-stimulating factor (M-CSF).
84. (Previously presented) A nucleic acid encoding the fusion protein of claim 78.
85. (Currently amended) An isolated or cultured cell comprising the nucleic acid of claim 84.
86. (New) A nucleic acid encoding the fusion protein of claim 63.
87. (New) An isolated or cultured cell comprising the nucleic acid of claim 86.
88. (New) A nucleic acid encoding the fusion protein of claim 71.
89. (New) An isolated or cultured cell comprising the nucleic acid of claim 88.
90. (New) A nucleic acid encoding the fusion protein of claim 81.
91. (New) An isolated or cultured cell comprising the nucleic acid of claim 90.